



SEQUENCE LISTING

023  
<110> STEWARD, LANCE E  
HERRINGTON, TODD M  
AOKI, KEI R

<120> LEUCINE-BASED MOTIF AND CLOSTRIDIAL NEUROTOXINS

<130> leucine motif/BoNT

<140> 09/620,840

<141> 2000-07-21

<160> 18

<170> PatentIn Ver. 2.1

<210> 1

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:fragment having  
properties substantially similar to that of  
leucine based sequence

<220>

<223> X may be any amino acid or derivatives thereof

<400> 1

Xaa Asp Xaa Xaa Xaa Leu Leu

1

5

<210> 2

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:fragment having  
properties substantially similar to leucine based  
motif

<220>

<223> X may be any amino acid or derivatives thereof

RECEIVED  
JAN 30 2002  
TECH CENTER 1600/2900

<400> 2

Xaa Glu Xaa Xaa Xaa Leu Leu

1

5

<210> 3

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:fragment having  
properties substantially similar to that of  
leucine based motif

<220>

<223> X may be any amino acid or derivative thereof

<400> 3

Xaa Asp Xaa Xaa Xaa Leu Ile

1

5

<210> 4

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:fragment having  
properties substantially similar to that of  
leucine based motif

<220>

<223> X may be any amino acid or derivative thereof

<400> 4

Xaa Asp Xaa Xaa Xaa Leu Met

1

5

<210> 5

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:fragment having

properties substantially similar to that of  
leucine based motif

<220>

<223> X may be any amino acid or derivative thereof

<400> 5

Xaa Glu Xaa Xaa Xaa Leu Ile

1

5

<210> 6

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:fragment having  
properties substantially similar to leucine based  
motif

<220>

<223> X may be any amino acid or derivative thereof

<400> 6

Xaa Glu Xaa Xaa Xaa Leu Met

1

5

<210> 7

<211> 7

<212> PRT

<213> botulinum toxin type A

<400> 7

Phe Glu Phe Tyr Lys Leu Leu

1

5

<210> 8

<211> 7

<212> PRT

<213> rat

<220>

<223> This fragment is commonly known as Rat VMAT 1.

<300>

<301> Liu, et al  
<302> Membrane trafficking of neurotransmitter transporter in  
the regulation of synaptic transmission  
<303> Trends in Cell Biology  
<304> 9  
<306> 356-363  
<307> SEP-1999

<400> 8  
Glu Glu Lys Arg Ala Ile Leu  
1 5

<210> 9  
<211> 7  
<212> PRT  
<213> rat

<220>  
<223> This fragment is commonly known as Rat VMAT 2.

<300>  
<301> Liu, et al  
<302> Membrane trafficking of neurotransmitter transporter in  
the regulation of synaptic transmission  
<303> Trends in Cell Biology  
<304> 9  
<306> 356-363  
<307> SEP-1999

<400> 9  
Glu Glu Lys Met Ala Ile Leu  
1 5

<210> 10  
<211> 7  
<212> PRT  
<213> rat

<220>  
<223> This fragment is known as Rat VACHT

<220>  
<223> The serine at position 1 may be phosphorylated.

<300>  
<301> Liu, et al

<302> Membrane trafficking of neurotransmitter transporter in  
the regulation of synaptic transmission

<303> Trends in Cell Biology

<304> 9

<306> 356-363

<307> SEP-1999

<400> 10

Ser Glu Arg Asp Val Leu Leu

1

5

<210> 11

<211> 7

<212> PRT

<213> rat

<220>

<223> This fragment is known as Rat (delta).

<400> 11

Val Asp Thr Gln Val Leu Leu

1

5

<210> 12

<211> 7

<212> PRT

<213> mouse

<220>

<223> This fragment is also known as "mouse (delta).

<400> 12

Ala Glu Val Gln Ala Leu Leu

1

5

<210> 13

<211> 7

<212> PRT

<213> frog

<220>

<223> This fragment is known as "frog (gamma/delta)"

<220>

<223> The serine at position 1 may be phosphorylated.

<400> 13

Ser Asp Lys Gln Asn Leu Leu

1

5

<210> 14

<211> 7

<212> PRT

<213> chicken

<220>

<223> This fragment is also known as "chicken  
(gamma/delta)".

<220>

<223> The serine at position 1 may be phosphorylated.

<400> 14

Ser Asp Arg Gln Asn Leu Ile

1

5

<210> 15

<211> 7

<212> PRT

<213> sheep

<220>

<223> This fragment is known as "Sheep (delta)".

<400> 15

Ala Asp Thr Gln Val Leu Met

1

5

<210> 16

<211> 7

<212> PRT

<213> human

<220>

<223> This fragment is known as "Human CD3(delta)".

<220>

<223> The serine at position 1 may be phosphorylated.

<300>

Q3

<301> Liu, et al

<302> Membrane trafficking of neurotransmitter transporter in  
the regulation of synaptic transmission

<303> Trends in Cell Biology

<304> 9

<306> 356-363

<307> SEP-1999

<400> 16

Ser Asp Lys Gln Thr Leu Leu

1

5

<210> 17

<211> 7

<212> PRT

<213> human

<220>

<223> This fragment is known as "Human CD4"

<220>

<223> The serine at position 1 may be phosphorylated.

<300>

<301> Liu, et al

<302> Membrane trafficking of neurotransmitter transporter in  
the regulation of synaptic transmission

<303> Trends in Cell Biology

<304> 9

<306> 356-363

<307> SEP-1999

<400> 17

Ser Gln Ile Lys Arg Leu Leu

1

5

<210> 18

<211> 7

<212> PRT

<213> human

<220>

<223> This fragment is known as "Human (delta)".

<400> 18

Ala Asp Thr Gln Ala Leu Leu

---